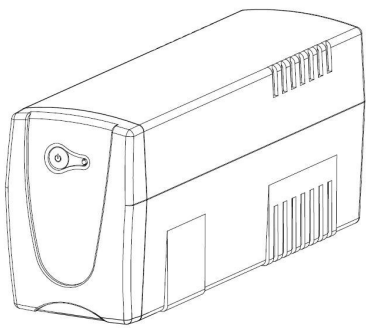
CyberPower®
Reliability. Quality. Value.



Value 400E-GP/600E-GP/800E-GP/1000E-GP User's Manual

K01-0000185-00

IMPORTANT SAFETY INSTRUCTIONS

This manual contains important instructions that should be followed during installation and maintenance of the UPS and batteries. Please read and follow all instructions carefully during installation and operation of the unit. Read this manual thoroughly before attempting to unpack, install, or operate.
CAUTION! The UPS must be connected to a grounded AC power outlet with fuse or circuit breaker protection. **DO NOT** plug the UPS into an outlet that is not grounded. If you need to de-energize this equipment, turn off and unplug the UPS.
CAUTION! DO NOT USE FOR MEDICAL OR LIFE SUPPORT EQUIPMENT! CyberPower Systems does not sell products for life support or medical applications. **DO NOT** use in any circumstance that would affect the operation or safety of any life support equipment, with any medical applications, or patient care.
CAUTION! The battery can energize hazardous live parts inside even when the AC input power is disconnected.
CAUTION! To prevent the risk of fire or electric shock, install in a temperature and humidity controlled indoor area, free of conductive contaminants. (Please see specifications for acceptable temperature and humidity range).
CAUTION! To reduce the risk of electric shock, do not remove the cover, except to service the battery. There are no user serviceable parts inside, except for the battery.
CAUTION! To avoid electrical shock, turn off the unit and unplug it from the AC power source before servicing the battery or installing a computer component.
CAUTION! DO NOT USE WITH OR NEAR AQUARIUMS! To reduce the risk of fire, do not use with or near aquariums. Condensation from the aquarium can come in contact with metal electrical contacts and cause the machine to short out.

INSTALLING YOUR UPS SYSTEM

UNPACKING

The box should contain the following:
(1) UPS Unit x 1; (2) IEC Power Cord x 1; (3) USB Cable x 1; (4) User Manual x 1; (5) Management Software Disk x 1

OVERVIEW

The Value 400E-GP/600E-GP/800E-GP/1000E-GP provides automatic voltage regulation for inconsistent utility power. The Value 400E-GP/600E-GP/800E-GP/1000E-GP features 405 Joules of surge protection, and provides battery backup during power outages. The Value 400E-GP/600E-GP/800E-GP/1000E-GP ensures consistent power to your computer system and its included software will automatically save your open files and shut down your computer system during a utility power loss.

HOW TO DETERMINE THE POWER REQUIREMENTS OF YOUR EQUIPMENT

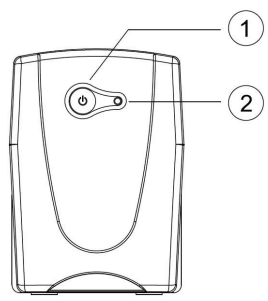
1. Ensure that the equipment plugged into the battery power-supplied/surge outlets does not exceed the UPS unit's rated capacity (400VA/240W for Value 400E-GP, 600VA/360W for Value 600E-GP, 800VA/480W for Value 800E -GP, 1000VA/530W for Value 1000E-GP). If the rated unit capacities are exceeded, an overload condition may occur and cause the UPS unit to shut down or the fuse blow.
2. There are many factors that can affect the amount of power that your computer system will require. For optimal system performance keep the load below 80% of the unit's rated capacity.

HARDWARE INSTALLATION GUIDE

1. Your new UPS may be used immediately upon receipt. However, recharging the battery for at least 8 hours is recommended to ensure that the battery's maximum charge capacity is achieved. Charge loss may occur during shipping and storage. To recharge the battery, simply leave the unit plugged into an AC outlet. The unit will charge in both the on and off position.
2. With the UPS unit off and unplugged, connect the computer, monitor, and any externally powered data storage device (Zip drive, Jazz drive, Tape drive, etc. into the battery power supplied outlets. **DO NOT plug a laser printer, copier, space heater, vacuum, paper shredder or other large electrical device into the battery power supplied outlets. The power demands of these devices will overload and possibly damage the unit.**
3. Plug the UPS into a 2 pole, 3 wire grounded receptacle (wall outlet). Make sure the wall branch outlet is protected by a fuse or circuit breaker and does not service equipment with large electrical demands (e.g. air conditioner, refrigerator, copier, etc. Avoid using extension cords.
4. Depress the power switch to turn the unit on. The power on indicator light will illuminate and the unit will "beep".
5. If an overload is detected, an audible alarm will sound and the unit will emit one long beep. To correct this, turn the UPS off and unplug at least one piece of equipment from the battery power supplied outlets. Wait 10 seconds. Make sure the circuit breaker is depressed and then turn the UPS on.
6. To maintain optimal battery charge, leave the UPS plugged into an AC outlet at all times.
7. To store your UPS for an extended period, cover it and store with the battery fully charged. Recharge the battery every three months to ensure battery life.

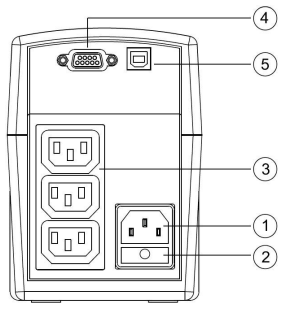
BASIC OPERATION

FRONT PANEL DESCRIPTION

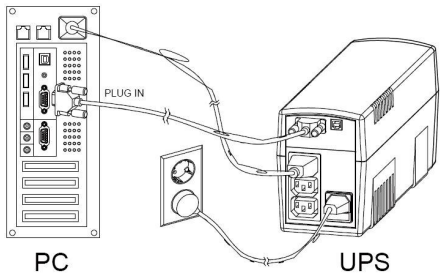


① **Power On/Off Switch**
Press the power switch to turn the UPS ON or OFF.
② **Power On Indicator**
This LED is illuminated when the utility condition is normal and the UPS outlets are providing "clean power", free of surges and spikes.

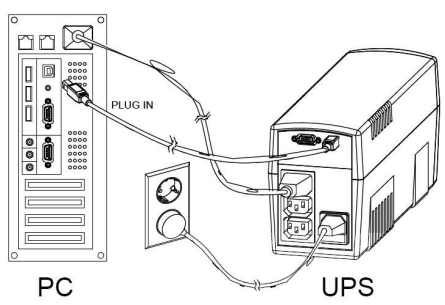
REAR PANEL DESCRIPTION



① **AC Inlet**
Connect to utility power through the input power cord.
② **Input Fuse**
The fuse provides optimal overload protection.
③ **AC Outlet**
The UPS provides 3 outlets for connected equipment to insure temporary uninterrupted operation during a power failure and against surges and spikes.
④ **Serial Port to PC**
This port allows connection and communication from the DB9 serial on the computer to the UPS unit. The UPS communicates its status to the **PowerPanel® Personal Edition** software.



⑤ **USB Port to PC**
This port allows connection and communication from the USB port on the computer to the UPS unit. The UPS communicates its status to the **PowerPanel® Personal Edition** software.



NOTE: Only one of these two ports can be used as communication and control of the UPS unit at one time.

TECHNICAL SPECIFICATIONS

Model	Value 400E-GP	Value 600E-GP	Value 800E-GP	Value 1000E-GP
Capacity (VA)	400	600	800	1000
Capacity (Watts)	240	360	480	530
Input				
Input Voltage Range	160-265Vac			
Frequency Range	47~63Hz (Auto Sensing)			
AVR	Boost @ 200V			
Output				
On Battery Output Voltage	Simulated Sine Wave at 230Vac +/-10%			
On Battery Output Frequency	50/60Hz +/-1%			
Transfer Time	4ms Typical			
Overload Protection	On Utility: Fuse & Internal Current Limiting On Battery: Internal Current Limiting			
Surge Protection				
Lightning / Surge Protection	Yes			
Operating Temperature	0°C to 40°C			
Operating Relative Humidity	0 to 90% non-condensing			
Physical				
Total # of UPS outlets	(3) IEC 320 C13			
Maximum Dimensions(LxWxH)	320x100x140mm			
Weight (kg)	4.0	5.1	6.1	6.2
Battery				
Sealed Maintenance Free Lead Acid Battery	12V / 4.5Ah x1	12V / 7Ah x1	12V / 8.5Ah x1	12V / 8.5Ah x1
Typical Recharge Time	8 hours			
User Replaceable	Yes			
Status Indicators				
Indicators	Power On / Using Battery			
Audible Alarms	On Battery, Low Battery, Overload			
Communication				
PowerPanel® Personal Edition Software	Windows 7/Vista/XP/2000/Server 2003, Linux			
Management				
Auto-Charger	Yes			
Auto-Restart	Yes			
USB	Yes			

DEFINITIONS FOR ILLUMINATED LED INDICATORS

LED	Alarm	Fuse	Condition
On	Off	Normal	Normal
Flash	Beep Twice	Normal	Utility Failure - The UPS is providing battery power to outlets.
Flash	Rapid Beeping	Normal	Utility Failure - The UPS is providing battery power. The rapid beeps indicate the battery will run out of power shortly.
On/Flash	Constant Tone	Normal/ Blown	Overload – Occurs when connected equipment exceeds the rating of the unit. Turn the UPS off and unplug at lease one piece of equipment from the UPS. Check the fuse and do the replacement if necessary. Turn the UPS on.

CYBERPOWER GREENPOWER UPS™ TECHNOLOGY

CyberPower's Green Commitment

CyberPower is dedicated to the development of green products, and has adopted Green practices throughout its business, including: membership in Climate Savers Computing Initiative (CSCI), accordance with the Restriction on Hazardous Substances (RoHS), Waste Electrical and Electronic Equipment (WEEE) protocols, as well as ISO 14001 and IECQ QC080000. CyberPower pledges to provide the advanced energy solution for the environment and become a leading eco-friendly organization in the UPS industry.

Reduce Energy Cost with GreenPower UPS™ Technology

CyberPower's goal is not only to provide eco-friendly products but also to bring the best value for consumers. The advanced energy-saving design improves the operating efficiency and eliminates waste energy consumption**.** As a result, consumers will enjoy significant energy cost savings with the adoption of **GreenPower UPS™** technology.

TROUBLESHOOTING

Problem	Possible Cause	Solution
The UPS does not perform expected runtime.	Battery not fully charged.	Recharge the battery by leaving the UPS plugged in.
	Battery is slightly worn out.	Contact CyberPower Systems about replacement batteries at service@cyberpower-eu.com
The UPS will not turn on.	The on/off switch is designed to prevent damage by rapidly turning it off and on.	Turn the UPS off. Wait 10 seconds and then turn the UPS on.
	The unit is not connected to an AC outlet.	The unit must be connected to a 220-240V 50/60Hz outlet.
	The battery is worn out.	Contact CyberPower Systems about replacement batteries at service@cyberpower-eu.com
	Mechanical problem.	Contact CyberPower Systems at service@cyberpower-eu.com
Outlets do not provide power to equipment.	Fuse is blown due to overload.	Turn the UPS off and unplug at least one piece connected equipment. Unplug the power cord of the UPS then remove the fuse compartment beneath the power inlet of the UPS and replace the blown fuse with a spare one. Lock the compartment back to the UPS. Connect power cord then turn the UPS on. Make sure that your spare fuse meets the specification.
	Batteries are discharged.	Allow the unit to recharge for at least 4 hours.
	Unit has been damaged by a surge or spike.	Contact CyberPower Systems at service@cyberpower-eu.com
PowerPanel® Personal Edition is inactive.	The serial/USB cable is not connected.	Connect the serial/USB cable to the UPS unit and an open serial port on the back of the computer. You must use the cable that came with the unit.
	The unit is not providing battery power.	Shutdown your computer and turn the UPS off. Wait 10 seconds and turn the UPS back on. This should reset the unit.

For more information, visit eu.cyberpowersystems.com or contact
CyberPower Systems B.V.
Flight Forum 3545 5657DW Eindhoven The Netherlands
Tel: +31 40 2348170, E-MAIL: sales@cyberpower-eu.com

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